CLAIMS

What is claimed is:

(1.) A roadway crash cushion comprising:

a collapsible, substantially self-restoring collapsing portion comprising a pair of substantially parallel panels formed substantially of a thermoplastic material.

- 2. The roadway crash cushion of claim 1 further comprising at least one cambered portion in each of said panels.
- 3. The roadway crash cushion of claim 1 wherein the thermoplastic material comprises polyethylene.
- 4. The roadway crash cushion of claim 1 further comprising at least one substantially rectangular supporting frame that is secured to each of the panels.
- 5. The roadway crash cushion of claim 4 further comprising a longitudinal, ground-mounted rail member and wherein the supporting frame engages the rail member for longitudinal movement along the rail member.
- 6. The roadway crash cushion of claim 1 wherein each of the panels has a cambered portion that provides a point of flexure for the panel.

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7. The roadway crash cushion of claim 1 further comprising a nose piece.

(8.) A roadway crash cushion comprising:

a collapsible cushion portion having a cambered panel member that collapsibly folds during a collision and, due to shape memory, will substantially return to an unfolded condition following a collision.

- 9. The roadway crash cushion of claim 8 wherein further comprising:
 - a ground-mounted longitudinal basetrack;
- a plurality of substantially rigid diaphragms that are affixed to the panel member, the diaphragms each engaging the basetrack for slidable movement thereupon.
- 10. The roadway crash cushion of claim 9 wherein the basetrack comprises a pair of parallel rail members.
- 11. The roadway crash cushion of claim 10 wherein each diaphragm comprises an enlarged rectangular upper portion to which the panel members are secured.
- 12. The roadway crash cushion of claim 10 wherein each diaphragm comprises a lower portion having a pair of shoes for slidingly engaging the rail members.

- 13. The roadway crash cushion of claim 9 further comprising a tension cable affixed to at least one diaphragm to prestress the panel members in a bending relation at their cambered portions.
- 14. The roadway crash cushion of claim 9 further comprising a nose piece formed of a sheet of plastic bent substantially into a "U" shape.

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A roadway crash cushion comprising;

a longitudinal, ground-mounted başetrack that comprises a pair of parallel rail members;

a pair of planar panel members that are positioned parallel to one another and in a substantially vertical orientation, the panel members each having a cambered portion that promotes plastic bending of the panel member along the cambered portion;

a plurality of diaphragms for securing the panel members to each other and to the basetrack, the diaphragms each comprising a pair of shoes for sliding engagement of the diaphragm to the basetrack rail members; and

a tension cable affixed to at least one diaphragm to prestress the panel members in a bending relation at their cambered portions.

- 16. The roadway crash cushion of claim 15 further wherein the panel members and diaphragms are secured to one another to form a linear array of closed crushable cells.
- 17. The roadway crash cushion of claim 16 wherein the cells are hexagonally shaped.

- 18. The roadway crash cushion of claim 16 wherein the cells have different sizes to provide for separate collapsible zones within the array of cells.
- 19. The roadway crash cushion of claim 18 wherein the array of cells has a pair of primary collapsible zones located at upstream and downstream ends of the array.
- 20. The roadway crash cushion of claim 19 wherein the array of cells has a secondary collapsible zone located between the primary collapsible zones.